	SampleName	<b>*</b>	Inj, Volume	Channel	Dilution
1	K63 in PBS		100,00	214nm	4,00
2	K63 in Chaps 0,25%		100,00	214nm	4,00
3	K63 In citrate		100,00	214nm	4,00

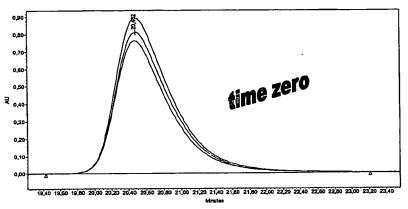


Figure 1A



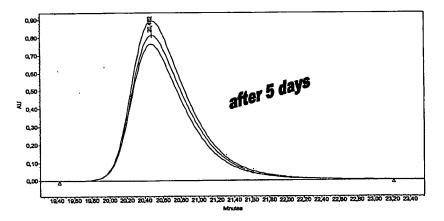


Figure 1B

Figure 1C

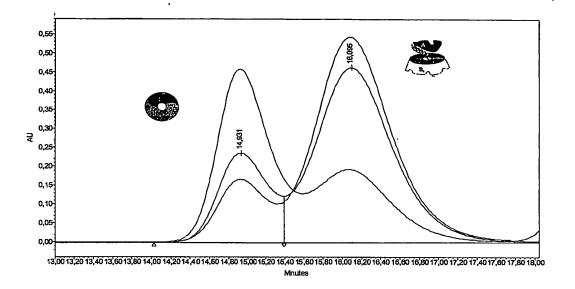
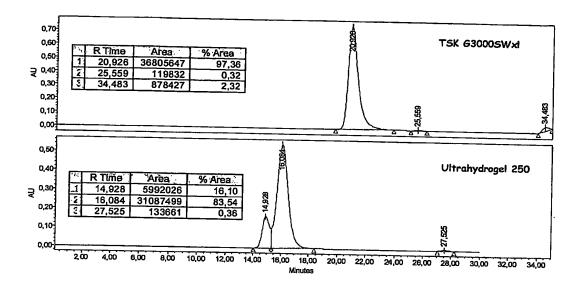
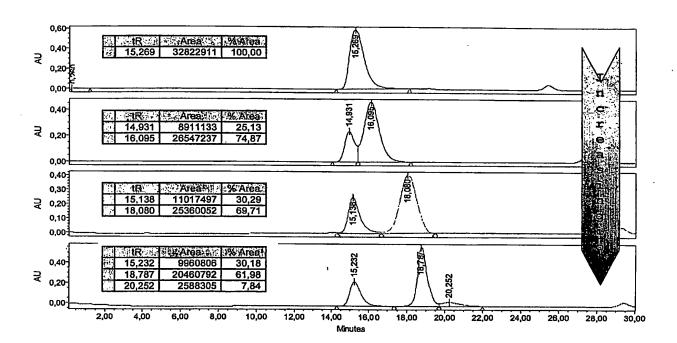


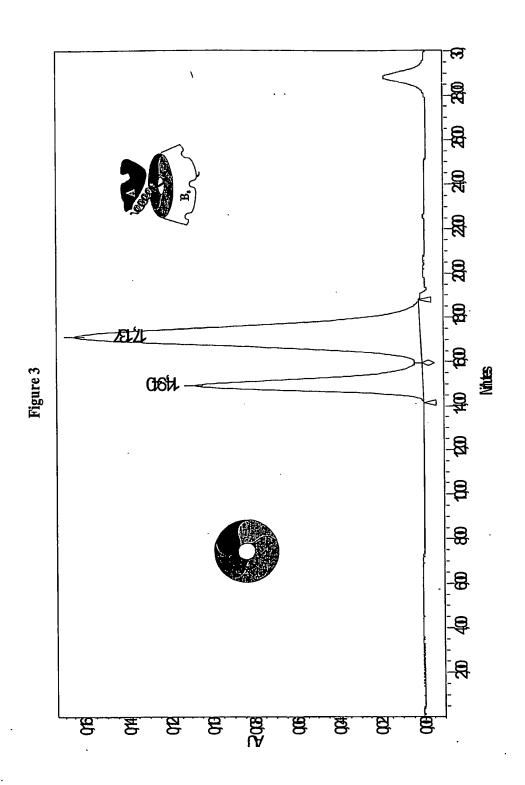
Figure 1D



Figures 2A-2D

Sample Name III	Distance of the Augusted of th	STANKS TO SELECT A	Injection Channel	Ollution
15 PBS 5gg agitazione	09/04/2003 9.55.19	KPI 50 mM + Na2SO4 50 mM pH 7,2	100.00   214nm	4,00
2 PBS 5gg agitazione	08/04/2003 13.53.06	KPI 100 mM + Na2SO4 100 mM pH 7,2	100,00 214nm	4,00
3: PBS 5gg agitazione	09/04/2003 15.07.11	KPI 250 mM + Na2SO4 100 mM pH 7,2	100,00 214nm	4,00
43 PBS 5gg agitazione	10/04/2003 9.51.42	KPI 200 mM + Na2SO4 200 mM pH 7,2	100,00 214nm	4,00





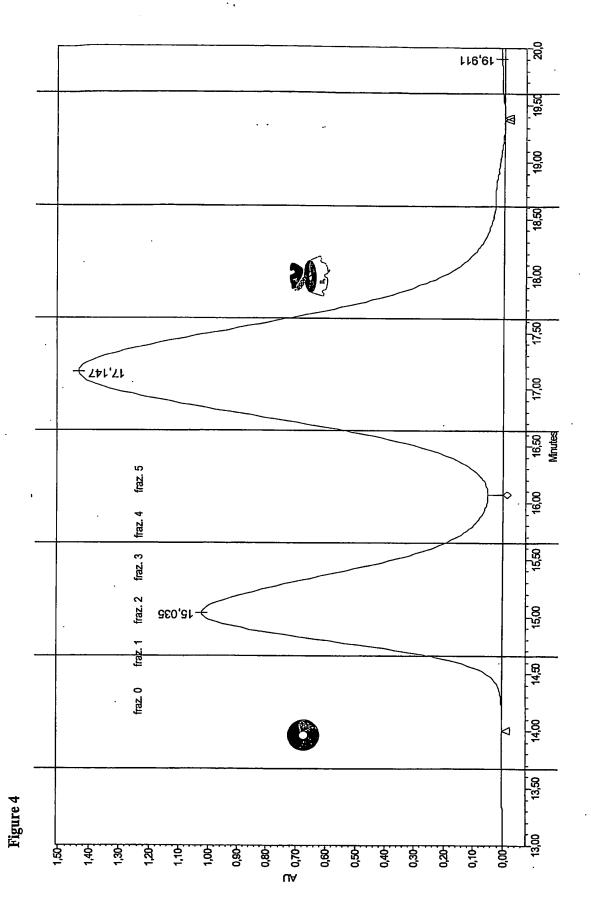


Figure 5A

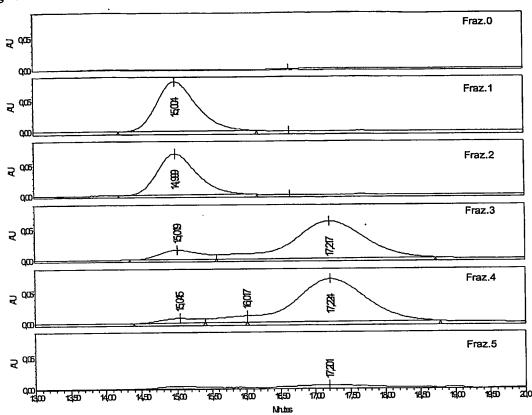


Figure 5B

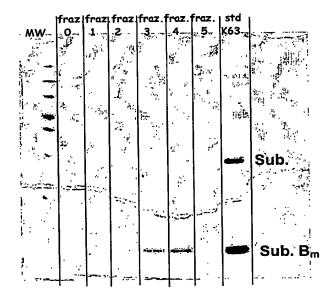
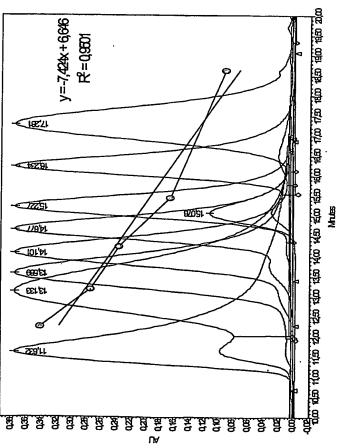


Figure 5C

Figure 5D

	Standard proteins	Rt (min)	$M_{\rm w}$ (Da)
	Thyroglobulin (boxine)	11,62	000.699
	Apoferritin	13,13	476.316
	B-amylase	13,58	224.340
	Alcohol Deydrogenase	14,10	146.980
	BSA	14,67	66.800
	Carbonic Anhydrase	16,22	29.023
	Sample proteins	Rt (min)	M <sub>w</sub> exp.
	CRM	15,23	57.099
	K63 AB <sub>5</sub>	17,26	9.611
8	K63 B <sub>5</sub>	15,07	65.607



뛾 red) (porg K63 Superimposition of standard proteins,  $CRM_{197}$  reference (bold blue), calibration curve used for apparent MF determination.

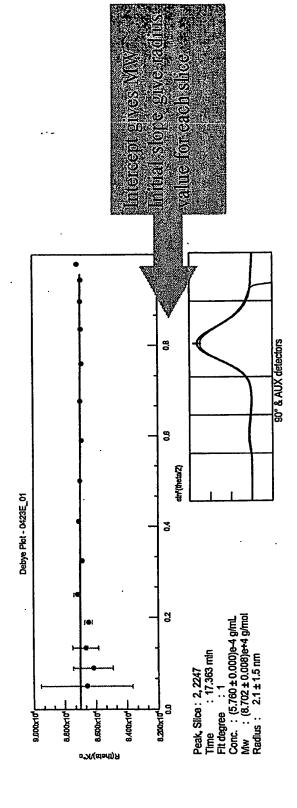


Figure 51



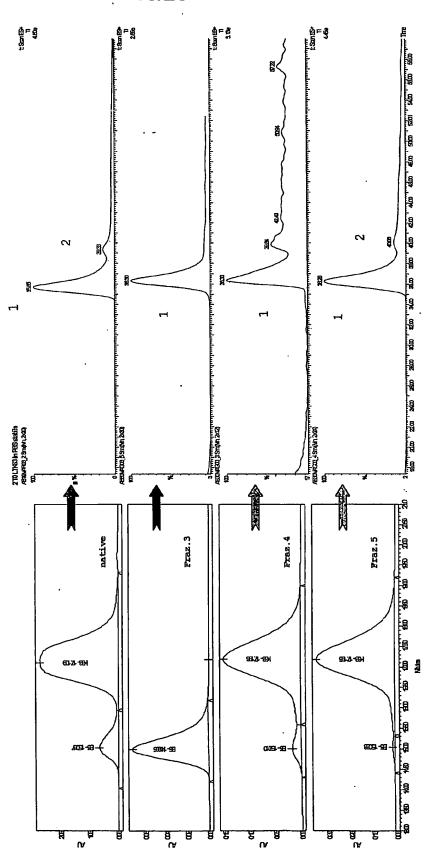


Figure 5F(b)

Figure 5F (a)

Figure 5G

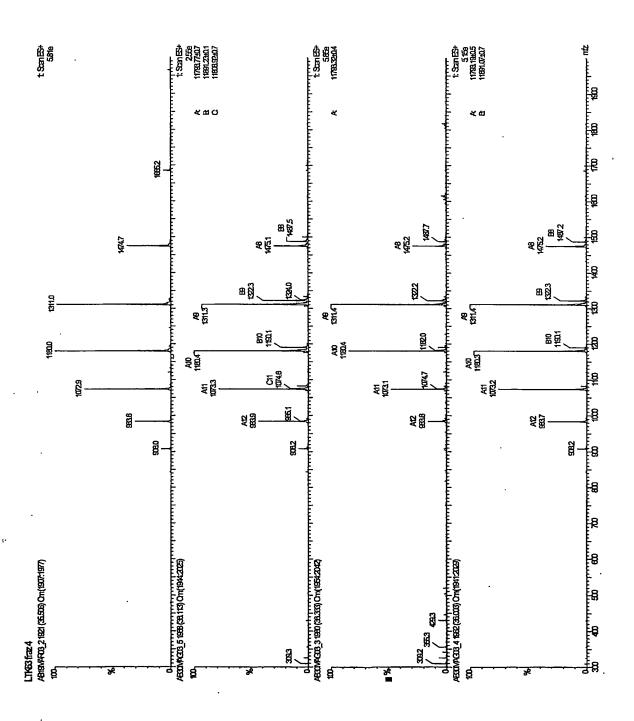


Figure 6: SDS-PAGE analysis of LTK 63 shaken samples

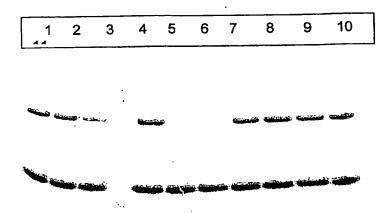


Figure 7: SDS-PAGE analysis of LTK 63 samples treated with CHAPS

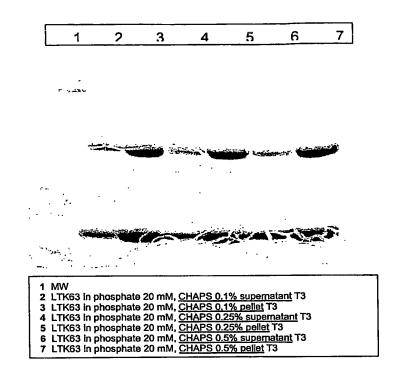


Figure 8: SDS-PAGE of LTK63 samples treated with L-Arginine

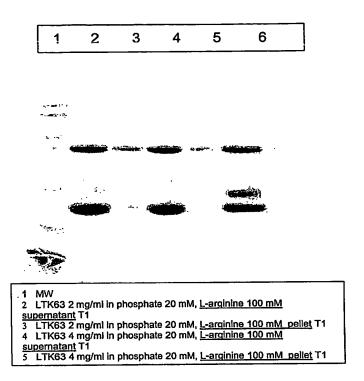


Figure 9(a): Old HPLC Method for analysing L-Arginine treated samples

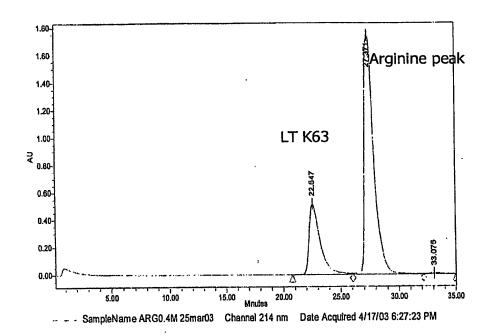


Figure 9(b): New HPLC Method for analysing L-Arginine treated samples

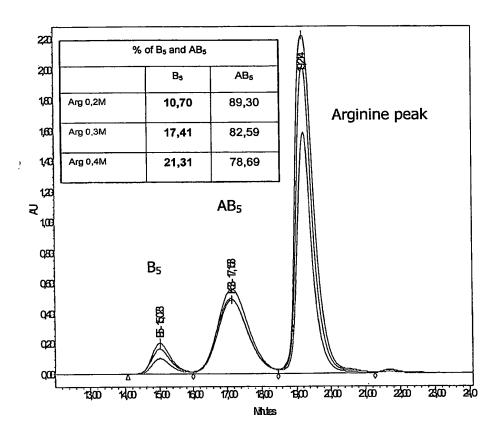


Figure 10(a): Determination of AB5 dissociation in L-Arginine treated samples and the %B5 in LTK63 at 1.3 mg/ml

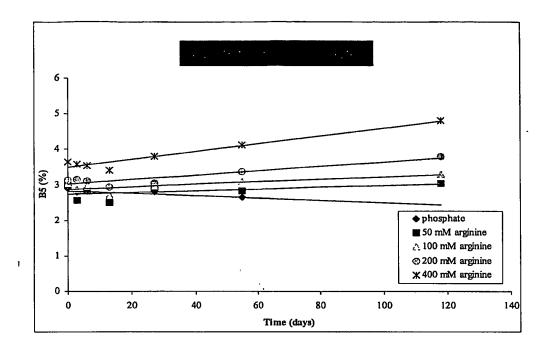


Figure 10(b): Determination of AB5 dissociation in L-Arginine treated samples and the %B5 in LTK63 at 4.0 mg/ml

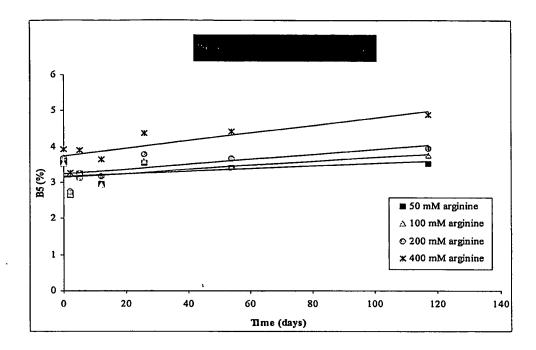


Figure 11(a): CHAPS effect on LTK63 dissociation

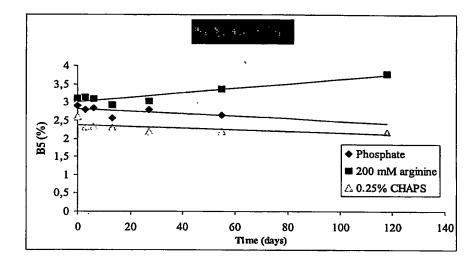


Figure 11(b): CHAPS effect on LT K63 dissociation in combination with L-Arginine

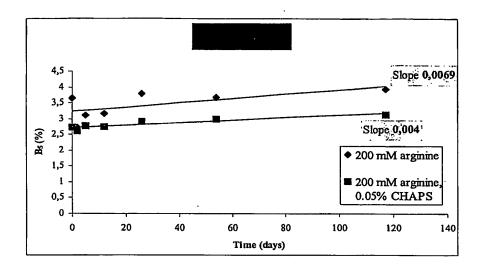


Figure 12: Effect of L-Arginine and CHAPS on LTK 63 stability at a protein concentration of 1,3 mg/ml

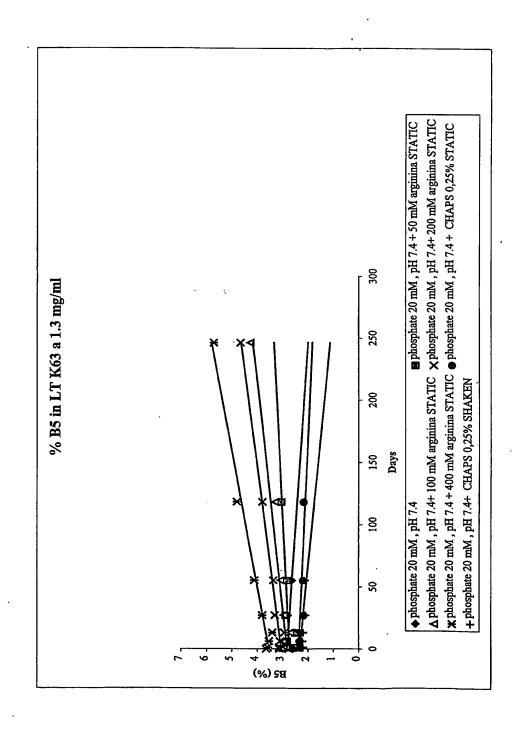
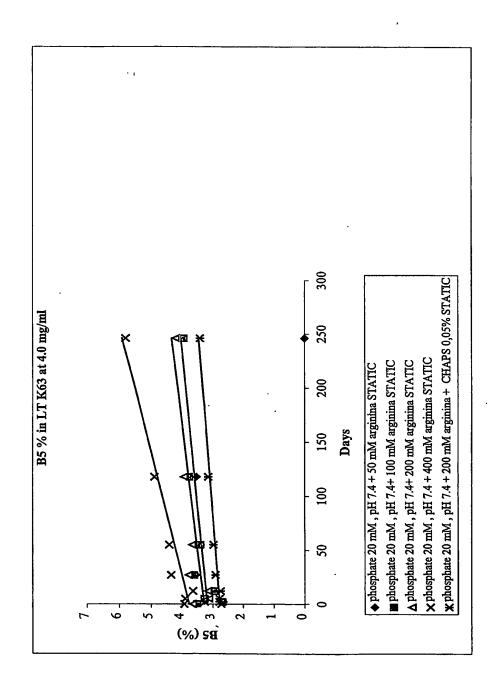


Figure 13: The effect of L-Arginine and the combination L-Arginine/CHAPS on LTK 63 stability at a protein concentration of 4,0 mg/ml



## **1. 23/26**

Figure 14 shows the effect of storage conditions on LTK 63 stability in L-Arginine + CHAPS containing buffers

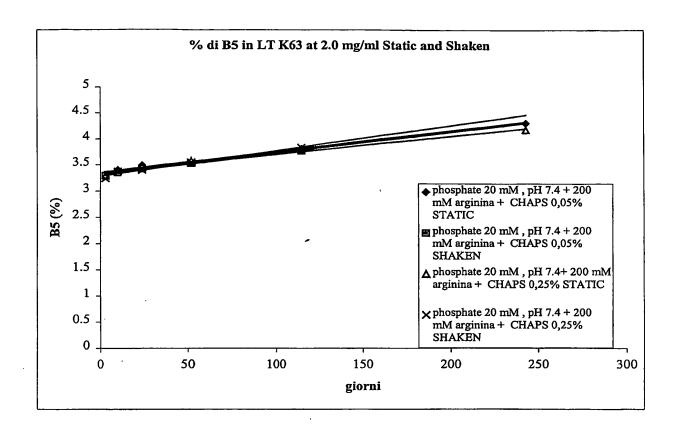


Figure 15: Comparison of LTK 63 stability on L-Arginine and L-Arginine + CHAPS storage buffers

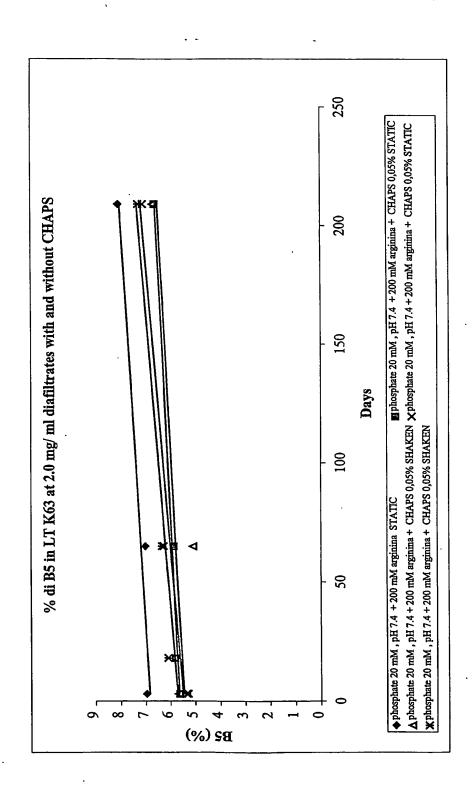


Figure 16

s (continued)	EMPIGEN BB® (r-dodecyt-N,N-	x = 7, ZWITTERGENT® 3-08 x = 9, ZWITTERGENT® 3-10 x = 11, ZWITTERGENT® 3-12 x = 15, ZWITTERGENT® 3-16 x = 15, ZWITTERGENT® 3-16	x = H, CHAPS x = OH, CHAPSO
Table 2, Structure and Classification of Detergents (continued)	CH3 CH3(GH2)11—N <sup>2—</sup> CH2—COO pH≥6	CH <sub>3</sub>	HO OHE SOS
F		Zwittergentis	

Figure 17

	size	5 g	19 59 109		5 g	6	Ē	<b>MER</b>	S.g	50	5.g. 25.g.	500 200 000	5.g 25.g
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	Average cellar Wei		9000	8			١.	17.00	1		18,500		60,000
	tion N		4								10		5
	Aggregation No.		4-14		To the second		.1		. 1		55		155
													98
ents	CMIC <sup>5</sup>		6-10	18	43	0	1.6.2	71.7	330	25.40	2.4		0.01-0.06
Zwitterjonic Detergents													
ic D	M.W. (anhydrous	4347	614.9	100	2995		272.0		279.6	300	335.6		391.6
nolie	M (anh)	43 17.46		6	53	1088	শি	7.29	N	6	EC.		<b>8</b> 6
Zwitt			_				٠				۸		
	Cat. No.	182750 7 182750	220201	22020	252000	100290 E	324690	428011	610669	11/2/25 11/0669	693015	0.00	693023
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	1						gent 3		8 Deter	Operer	2 Deter		6 Deter
						DEWAY THE TANK THE TANK THE TANK THE	EMPIGEN BB® Detergent, 30% Solution	kiajiyidimetivylamiheloxide (boxo)iana	0 6 1	ZWITIERISENIE O 1000 DE PONTE.	ZWITTERGENT® 3-12 Detergent		ZWITTERGENT® 3-16 Detergent
:	ıct	4 6/40 Ti	S		\B \creek		EN BB		ERGEN		EBGEN		ERGEN
,	Product	ASB-14	CHAPS	CHARSO					E		ZWI	ZWNTTEKERITY SITHIDAKUGAN TITALIK TITA	LIMZ

a. Averagio molecular weights are diver for defengents composed of mixtures of chain lengths; b. Temperatures 20 - 25°C

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